

Ice cover dataset of Mongolia in 1990

Data Documentation

I. Dataset/atlas content features

i. Abstract

The dataset is ice cover data of Mongolia in 1990, one of the subsets of Mongolian land cover dataset, which showed the spatial distribution of ice cover of Mongolia in 1990. The dataset is based on Landsat TM remote sensing images and obtained by using object-oriented classification method. The result of classification is fully opened to the public.

ii. Elements (content fields)

The folder name means the time of ice cover of Mongolia, for example the folder name is “1990”, which refers to ice cover of Mongolia in 1990. There are 4 main files in the dataset, whose meaning is as follows:

.TIF file is the raster images of ice cover in Mongolia

.TFW is the coordinate file

.XML file is used to store auxiliary data

.OVR file is used to store the newest format of pyramid layer

There are 4 columns in the attribute table.

The first column is OID, which means feature number.

The second column is Value, which means feature shape.

The third column is Count, which means the number of pixels.

The fourth column is code

The meanings of each encoding are as follows:

Table 1 Description of each number

11	forest
21	meadow steppe
22	real steppe
23	desert steppe
31	ice
41	cropland
51	water
61	built area
71	desert
72	bare land
73	sand

iii. Temporal cover

The time of this dataset is 1990.

iv. Spatial cover

The spatial range of this dataset is Mongolia (42° -52° N, 88° -120° E)

II. Subject/industry scope of dataset/atlas

i. Subject scope

Technology of photogrammetry and remote sensing (Remote Sensing Information Engineering other technologies), Cartography, Geography (Physical geography, Human geography, Regional geography, Urban geography, Tourism Geography) et al.

ii. Industry scope

Natural science research and experimental development, Engineering and technical research and experimental development, Agricultural scientific research and experimental development, Environmental monitoring, Water resources management, Natural conservation, Scenic spot management et al.

iii. Other classifications (optional)

(Other categories can be applied, but should reflect the dataset/atlas characteristics.)

III. Accuracy of dataset/atlas

i. Time frequency

The time of this data covering in Mongolia is Aug, 1990.

ii. Spatial reference, accuracy, and granularity

The geographical coordinator is WGS-84 and the projection is Albers. The spatial resolution is 30 m and the time is 1990.

IV. Dataset/atlas storage management

i. Data quantity

47 MB

ii. Type format

The dataset is stored in the hard disk and it is raster data. It can be opened by ArcGIS software under Windows operator system.

iii. Update management

Aperiodic updating

V. Quality control of the dataset/atlas

i. Production mode

The land cover data of Mongolia in 1990 was obtained based on Landsat TM remote sensing images and using object-oriented classification method and eCognition software

Data position: Mongolia

Data time: Aug, 1990.

Characteristic words: Mongolia, Ice cover data, 1990

ii. Data sources (condition selection)

The source of this dataset is Landsat TM remote sensing images which is downed on the internet and the result is obtained by object-oriented classification method with eCognition software.

iii. Methods of the data acquisition and processing (condition selection)

Acquisition method: Down on the net and field survey.

Processing method: Data registration and Object-oriented classification method.

VI. Sharing and usage method of the dataset/atlas

i. Sharing methods and restrictions

Fully opened sharing

ii. Contact information of the sharing service (condition selection)

Contact Information for Service:

Name: Service group of Disaster Risk Reduction Knowledge Service System of IKCEST

Address: A11 Datun Road, Chaoyang District, Beijing

Zip Code: 100101

E-mail: ikcest-drr@lreis.ac.cn

iii. Conditions and methods of usage

The dataset can be read by ArcGIS software

VII. Intellectual property rights of the dataset/atlas

i. Property rights (optional)

The property of the dataset belongs to the Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences.

ii. Reference method of the dataset/atlas

Ice cover data of Mongolia with spatial resolution of 30m(1990). Disaster Risk Reduction Knowledge Service of International Knowledge Centre for Engineering Sciences and Technology (IKCEST) under the Auspices of UNESCO, 2014.9.13, <http://drr.ikcest.org/info/9c5f7>.

iii. Usage contacts of the datasets/atlas

(The contact persons or agencies, who curate the data and provide a data sharing service, should be listed, including their name, address, postcode, telephone, and e-mail).

Name: Cheng Kai

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VIII. Others (optional)

In addition to the above, other information must also be explained.

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